



# FCC RF Test Report

**APPLICANT** : Motorola Mobility LLC  
**EQUIPMENT** : Mobile Cellular Phone  
**BRAND NAME** : Motorola  
**MODEL NAME** : 10509  
**FCC ID** : IHDT56WC7  
**STANDARD** : FCC Part 15 Subpart C §15.247  
**CLASSIFICATION** : (DSS) Spread Spectrum Transmitter

This is a data-reuse report which is only valid together with the original test report. We, Sporton International (KunShan) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (KunShan) INC., the test report shall not be reproduced except in full.

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**Approved by: Jones Tsai / Manager**

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## REVISION HISTORY

| REPORT NO.   | VERSION | DESCRIPTION             | ISSUED DATE   |
|--------------|---------|-------------------------|---------------|
| FR711913-02A | Rev. 01 | Initial issue of report | Apr. 01, 2017 |
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# 1 General Description

## 1.1 Applicant

Motorola Mobility LLC

222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.2 Manufacturer

Motorola Mobility LLC

222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.3 Product Feature of Equipment Under Test

| Product Feature                 |                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment                       | Mobile Cellular Phone                                                                                                                                           |
| Brand Name                      | Motorola                                                                                                                                                        |
| Model Name                      | 10509                                                                                                                                                           |
| FCC ID                          | IHDT56WC7                                                                                                                                                       |
| EUT supports Radios application | GSM/GPRS/EDGE/WCDMA/HSPA/DC-HSDPA/HSPA+/LTE/<br>WLAN 2.4GHz 802.11b/g/n HT20/<br>Bluetooth v3.0 + EDR/Bluetooth v4.0 LE/<br>Bluetooth v4.1 LE/Bluetooth v4.2 LE |
| HW Version                      | WKGMA1A4-3                                                                                                                                                      |
| SW Version                      | woods- userdebug 7.0 NMA25.27 314 intcfg, test-keys                                                                                                             |
| EUT Stage                       | Identical Prototype                                                                                                                                             |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

## 1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification |                                                                                                         |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------|
| Tx/Rx Frequency Range                   | 2402 MHz ~ 2480 MHz                                                                                     |
| Number of Channels                      | 79                                                                                                      |
| Carrier Frequency of Each Channel       | 2402+n*1 MHz; n=0~78                                                                                    |
| Antenna Type / Gain                     | PIFA Antenna                                                                                            |
| Type of Modulation                      | Bluetooth BR (1Mbps) : GFSK<br>Bluetooth EDR (2Mbps) : $\pi/4$ -DQPSK<br>Bluetooth EDR (3Mbps) : 8-DPSK |



## **2 Re-use of Measured Data**

### **2.1 Introduction Section**

This application re-uses data collected on a similar device. The subject device of this application (Model: 10509, FCC ID: IHDT56WC7) is electrically identical to the reference device (Model: 10714, FCC ID: IHDT56WC6) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 178919 D01.

### **2.2 Difference Section**

For details concerning the similarity with respect to component placement, mechanical/electrical design etc., please refer to the Operational Description.

The re-used RF data includes the following bands provided in Appendix B (Sporton RF Report No. FR711913A for the reference device Model: 10714, FCC ID: IHDT56WC6):

### **2.3 Spot Check Verification Data Section**

In order to confirm hardware similarity of the subject device with the reference device, spot check measurements were performed on the subject device for radiated spurious emission, the test result were consistent with FCC ID: IHDT56WC6.

Assertions concerning the similarity of these devices are based on representations by the applicant. The applicant accepts full responsibility for the validity of the similarity claim, and for the determination that verification test data are sufficient to support it.

### **2.4 Reference detail Section:**

| Equipment Class | Reference FCC ID | Folder Test/RF Exposure | Report Title/Section    |
|-----------------|------------------|-------------------------|-------------------------|
| DSS             | IHDT56WC6        | Part15C(FR711913A)      | All sections applicable |
| DTS (BLE)       | IHDT56WC6        | Part15C(FR711913B)      | All sections applicable |
| DTS (WLAN)      | IHDT56WC6        | Part15C(FR711913C)      | All sections applicable |



## **Appendix A. Reference Report**

Please refer to Sporton report number FR711913A which is issued separately.